



# 9

PATENT

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

## In re Application of:

Vogels et al.

Serial No.: 10/002,750

Filed: 11/15/2001

For: COMPLEMENTING CELL LINES

Confirmation No.: 5853

Examiner: To be assigned

Group Art Unit: 1648

Attorney Docket No.: 2183-5148US

## NOTICE OF EXPRESS MAILING

Express Mail Mailing Label Number: EL092593948USDate of Deposit with USPS: May 31, 2002Person making Deposit: Orlena Howell

## STATEMENT UNDER 37 C.F.R. §§ 1.821 THROUGH 1.825

Commissioner for Patents  
Washington, D.C. 20231

Sir:


I, Tawni L. Wilhelm, an attorney registered to practice before the United States Patent & Trademark Office and attorney of record for this application, state that:

1. The enclosed paper copy of the substitute SEQUENCE LISTING, as well as the enclosed copy of the substitute SEQUENCE LISTING in computer readable form (CRF), are included herewith to comply with the requirements of 37 C.F.R. §§ 1.821 and/or 1.825 as requested by the Examiner.
2. The enclosed copy of the substitute SEQUENCE LISTING in computer readable form (CRF) is believed to be the same as the paper copy of the substitute SEQUENCE LISTING.

Serial No.: 10/002,750

3. The SEQUENCE LISTINGS submitted herewith are believed to contain no "new matter" with regard to the referenced patent application.

Respectfully submitted,



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Date: May 31, 2002  
ACT/bv



#9

SEQUENCE LISTING

<110> Vogels, Ronald  
Havenga, Menzo J.E.  
Mehtali, Majid

<120> Complementing cell lines

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<141> 2001-11-15

<150> US 09/713,678  
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<210> 45
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<212> PRT
<213> adenoviridae

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<220>
<221> SITE
<222> (1)..(180)
<223> /note="pCC536s E1B-21K sequence"

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<400> 45
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Leu Glu Gln Ser Ser Asn Ser Thr Ser Trp Phe Trp Arg Phe Leu Trp
      20             25             30

Gly Ser Ser Gln Ala Lys Leu Val Cys Arg Ile Lys Glu Asp Tyr Lys
      35             40             45

Trp Glu Phe Glu Glu Leu Leu Lys Ser Cys Gly Glu Leu Phe Asp Ser
      50             55             60

Leu Asn Leu Gly His Gln Ala Leu Phe Gln Glu Lys Val Ile Lys Thr
      65             70             75             80

Leu Asp Phe Ser Thr Pro Gly Arg Ala Ala Ala Val Ala Phe Leu
      85             90             95

Ser Phe Ile Lys Asp Lys Trp Ser Glu Glu Thr His Leu Ser Gly Gly
      100            105            110

Tyr Leu Leu Asp Phe Leu Ala Met His Leu Trp Arg Ala Val Val Arg
      115            120            125

His Lys Asn Arg Leu Leu Leu Ser Ser Val Arg Pro Ala Ile Ile
      130            135            140

Pro Thr Glu Glu Gln Gln Gln Gln Glu Glu Ala Arg Arg Arg Arg
      145            150            155            160

Gln Glu Gln Ser Pro Trp Asn Pro Arg Ala Gly Leu Asp Pro Pro Val
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Glu Glu Ala Glu
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<210> 46
<211> 176
<212> PRT
<213> adenoviridae

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<220>  
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                   20                  25                  30  
 Gly Ser Ser Gln Ala Lys Leu Val Cys Arg Ile Lys Glu Asp Tyr Lys  
                   35                  40                  45  
 Trp Glu Phe Glu Glu Leu Leu Lys Ser Cys Gly Glu Leu Phe Asp Ser  
   50                  55                  60  
 Leu Asn Leu Gly His Gln Ala Leu Phe Gln Glu Lys Val Ile Lys Thr  
   65                  70                  75                  80  
 Leu Asp Phe Ser Thr Pro Gly Arg Ala Ala Ala Val Ala Phe Leu  
                   85                  90                  95  
 Ser Phe Ile Lys Asp Lys Trp Ser Glu Glu Thr His Leu Ser Gly Gly  
                   100                  105                  110  
 Tyr Leu Leu Asp Phe Leu Ala Met His Leu Trp Arg Ala Val Val Arg  
   115                  120                  125  
 His Lys Asn Arg Leu Leu Leu Leu Ser Ser Val Arg Pro Ala Ile Ile  
   130                  135                  140  
 Pro Thr Glu Glu Gln Gln Gln Gln Glu Glu Ala Arg Arg Arg Arg  
   145                  150                  155                  160  
 Gln Glu Gln Ser Pro Trp Asn Pro Arg Ala Gly Leu Asp Pro Arg Glu  
                   165                  170                  175

<210> 47  
 <211> 180  
 <212> PRT  
 <213> adenoviridae

<220>  
 <221> SITE  
 <222> (1)..(180)  
 <223> /note="Ad35.E1B-21K sequence"

<400> 47  
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 Leu Glu Ser Ala Ser Asp Gly Val Ser Gly Phe Trp Arg Phe Trp Phe  
                   20                  25                  30  
 Ala Ser Glu Leu Ala Arg Val Val Phe Arg Ile Lys Gln Asp Tyr Lys  
                   35                  40                  45  
 Gln Glu Phe Glu Lys Leu Leu Val Asp Cys Pro Gly Leu Phe Glu Ala  
   50                  55                  60

Leu Asn Leu Gly His Gln Val His Phe Lys Glu Lys Val Leu Ser Val  
 65 70 75 80  
 Leu Asp Phe Ser Thr Pro Gly Arg Thr Ala Ala Val Ala Phe Leu  
 85 90 95  
 Thr Phe Ile Leu Asp Lys Trp Ile Pro Gln Thr His Phe Ser Arg Gly  
 100 105 110  
 Tyr Val Leu Asp Phe Ile Ala Thr Ala Leu Trp Arg Thr Trp Lys Val  
 115 120 125  
 Arg Lys Met Arg Thr Ile Leu Gly Tyr Trp Pro Val Gln Pro Leu Gly  
 130 135 140  
 Val Ala Gly Ile Leu Arg His Pro Pro Val Met Pro Ala Val Leu Glu  
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 Glu Glu Gln Gln Glu Asp Asn Pro Arg Ala Gly Leu Asp Pro Pro Val  
 165 170 175  
 Glu Glu Ala Glu  
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<210> 48  
 <211> 494  
 <212> PRT  
 <213> adenoviridae

<220>  
 <221> SITE  
 <222> (1)..(494)  
 <223> /note="pCC536s E1B-55K sequence"

<400> 48  
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 Gly His Ala Ser Val Glu Ser Gly Cys Glu Thr Gln Glu Ser Pro Ala  
 20 25 30  
 Thr Val Val Phe Arg Pro Pro Gly Asp Asn Thr Asp Gly Gly Ala Ala  
 35 40 45  
 Ala Ala Ala Gly Gly Ser Gln Ala Ala Ala Ala Gly Ala Glu Pro Met  
 50 55 60  
 Glu Pro Glu Ser Arg Pro Gly Pro Ser Ser Gly Gly Gly Gly Val Ala  
 65 70 75 80  
 Asp Leu Ser Pro Glu Leu Gln Arg Val Leu Thr Gly Ser Thr Ser Thr  
 85 90 95  
 Gly Arg Asp Arg Gly Val Lys Arg Glu Arg Ala Ser Ser Gly Thr Asp  
 100 105 110  
 Ala Arg Ser Glu Leu Ala Leu Ser Leu Met Ser Arg Arg Arg Pro Glu  
 115 120 125  
 Thr Ile Trp Trp His Glu Val Gln Lys Glu Gly Arg Asp Glu Val Ser  
 130 135 140

Val Leu Gln Glu Lys Tyr Ser Leu Glu Gln Val Lys Thr Cys Trp Leu  
 145 150 155 160  
 Glu Pro Glu Asp Asp Trp Ala Val Ala Ile Lys Asn Tyr Ala Lys Ile  
 165 170 175  
 Ala Leu Arg Pro Asp Lys Gln Tyr Lys Ile Ser Arg Arg Ile Asn Ile  
 180 185 190  
 Arg Asn Ala Cys Tyr Ile Ser Gly Asn Gly Ala Glu Val Val Ile Asp  
 195 200 205  
 Thr Gln Asp Lys Thr Val Ile Arg Cys Cys Met Met Asp Met Trp Pro  
 210 215 220  
 Gly Val Val Gly Met Glu Ala Val Thr Phe Val Asn Val Lys Phe Arg  
 225 230 235 240  
 Gly Asp Gly Tyr Asn Gly Ile Val Phe Met Ala Asn Thr Lys Leu Ile  
 245 250 255  
 Leu His Gly Cys Ser Phe Phe Gly Phe Asn Asn Thr Cys Val Asp Ala  
 260 265 270  
 Trp Gly Gln Val Ser Val Arg Gly Cys Ser Phe Tyr Ala Cys Trp Ile  
 275 280 285  
 Ala Thr Ala Gly Arg Thr Lys Ser Gln Leu Ser Leu Lys Lys Cys Ile  
 290 295 300  
 Phe Gln Arg Cys Asn Leu Gly Ile Leu Asn Glu Gly Glu Ala Arg Val  
 305 310 315 320  
 Arg His Cys Ala Ser Thr Asp Thr Gly Cys Phe Ile Leu Ile Lys Gly  
 325 330 335  
 Asn Ala Ser Val Lys His Asn Met Ile Cys Gly Ala Ser Asp Glu Arg  
 340 345 350  
 Pro Tyr Gln Met Leu Thr Cys Ala Gly Gly His Cys Asn Met Leu Ala  
 355 360 365  
 Thr Val His Ile Val Ser His Gln Arg Lys Lys Trp Pro Val Phe Asp  
 370 375 380  
 His Asn Val Leu Thr Lys Cys Thr Met His Ala Gly Gly Arg Arg Gly  
 385 390 395 400  
 Met Phe Met Pro Tyr Gln Cys Asn Met Asn His Val Lys Val Leu Leu  
 405 410 415  
 Glu Pro Asp Ala Phe Ser Arg Met Ser Leu Thr Gly Ile Phe Asp Met  
 420 425 430  
 Asn Thr Gln Ile Trp Lys Ile Leu Arg Tyr Asp Asp Thr Arg Ser Arg  
 435 440 445  
 Val Arg Ala Cys Glu Cys Gly Gly Lys His Ala Arg Phe Gln Pro Val  
 450 455 460  
 Cys Val Asp Val Thr Glu Asp Leu Arg Pro Asp His Leu Val Ile Ala  
 465 470 475 480

Arg Thr Gly Ala Glu Phe Gly Ser Ser Gly Glu Glu Thr Asp  
485 490

<210> 49  
<211> 494  
<212> PRT  
<213> adenoviridae

<220>  
<221> SITE  
<222> (1)..(494)  
<223> /note="Ad35. E1B-55K sequence"

<400> 49  
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Ser His Ser Ile Val Glu Asn Met Glu Gly Ser Gln Asp Glu Asp Asn  
20 25 30  
Leu Arg Leu Leu Ala Ser Ala Ala Phe Gly Cys Ser Gly Asn Pro Glu  
35 40 45  
Ala Ser Thr Gly His Ala Ser Gly Ser Gly Gly Thr Ala Arg Gly  
50 55 60  
Gln Pro Glu Ser Arg Pro Gly Pro Ser Ser Gly Gly Gly Val Ala  
65 70 75 80  
Asp Leu Ser Pro Glu Leu Gln Arg Val Leu Thr Gly Ser Thr Ser Thr  
85 90 95  
Gly Arg Asp Arg Gly Val Lys Arg Glu Arg Ala Ser Ser Gly Thr Asp  
100 105 110  
Ala Arg Ser Glu Leu Ala Leu Ser Leu Met Ser Arg Arg Arg Pro Glu  
115 120 125  
Thr Ile Trp Trp His Glu Val Gln Lys Glu Gly Arg Asp Glu Val Ser  
130 135 140  
Val Leu Gln Glu Lys Tyr Ser Leu Glu Gln Val Lys Thr Cys Trp Leu  
145 150 155 160  
Glu Pro Glu Asp Asp Trp Ala Val Ala Ile Lys Asn Tyr Ala Lys Ile  
165 170 175  
Ala Leu Arg Pro Asp Lys Gln Tyr Lys Ile Ser Arg Arg Ile Asn Ile  
180 185 190  
Arg Asn Ala Cys Tyr Ile Ser Gly Asn Gly Ala Glu Val Val Ile Asp  
195 200 205  
Thr Gln Asp Lys Thr Val Ile Arg Cys Cys Met Met Asp Met Trp Pro  
210 215 220  
Gly Val Val Gly Met Glu Ala Val Thr Phe Val Asn Val Lys Phe Arg  
225 230 235 240  
Gly Asp Gly Tyr Asn Gly Ile Val Phe Met Ala Asn Thr Lys Leu Ile  
245 250 255

Leu His Gly Cys Ser Phe Phe Gly Phe Asn Asn Thr Cys Val Asp Ala  
 260 265 270  
 Trp Gly Gln Val Ser Val Arg Gly Cys Ser Phe Tyr Ala Cys Trp Ile  
 275 280 285  
 Ala Thr Ala Gly Arg Thr Lys Ser Gln Leu Ser Leu Lys Lys Cys Ile  
 290 295 300  
 Phe Gln Arg Cys Asn Leu Gly Ile Leu Asn Glu Gly Glu Ala Arg Val  
 305 310 315 320  
 Arg His Cys Ala Ser Thr Asp Thr Gly Cys Phe Ile Leu Ile Lys Gly  
 325 330 335  
 Asn Ala Ser Val Lys His Asn Met Ile Cys Gly Ala Ser Asp Glu Arg  
 340 345 350  
 Pro Tyr Gln Met Leu Thr Cys Ala Gly Gly His Cys Asn Met Leu Ala  
 355 360 365  
 Thr Val His Ile Val Ser His Gln Arg Lys Lys Trp Pro Val Phe Asp  
 370 375 380  
 His Asn Val Leu Thr Lys Cys Thr Met His Ala Gly Gly Arg Arg Gly  
 385 390 395 400  
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 405 410 415  
 Glu Pro Asp Ala Phe Ser Arg Met Ser Leu Thr Gly Ile Phe Asp Met  
 420 425 430  
 Asn Thr Gln Ile Trp Lys Ile Leu Arg Tyr Asp Asp Thr Arg Ser Arg  
 435 440 445  
 Val Arg Ala Cys Glu Cys Gly Gly Lys His Ala Arg Phe Gln Pro Val  
 450 455 460  
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 Arg Thr Gly Ala Glu Phe Gly Ser Ser Gly Glu Glu Thr Asp  
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 35 40 45  
 Ala Ala Ala Gly Gly Ser Gln Ala Ala Ala Ala Gly Ala Glu Pro Met  
 50 55 60  
 Glu Pro Glu Ser Arg Pro Gly Pro Ser Gly Met Asn Val Val Gln Val  
 65 70 75 80  
 Ala Glu Leu Tyr Pro Glu Leu Arg Arg Ile Leu Thr Ile Thr Glu Asp  
 85 90 95  
 Gly Gln Gly Leu Lys Gly Val Lys Arg Glu Arg Gly Ala Cys Glu Ala  
 100 105 110  
 Thr Glu Glu Ala Arg Asn Leu Ala Phe Ser Leu Met Thr Arg His Arg  
 115 120 125  
 Pro Glu Cys Ile Thr Phe Gln Gln Ile Lys Asp Asn Cys Ala Asn Glu  
 130 135 140  
 Leu Asp Leu Leu Ala Gln Lys Tyr Ser Ile Glu Gln Leu Thr Thr Tyr  
 145 150 155 160  
 Trp Leu Gln Pro Gly Asp Asp Phe Glu Glu Ala Ile Arg Val Tyr Ala  
 165 170 175  
 Lys Val Ala Leu Arg Pro Asp Cys Lys Tyr Lys Ile Ser Lys Leu Val  
 180 185 190  
 Asn Ile Arg Asn Cys Cys Tyr Ile Ser Gly Asn Gly Ala Glu Val Glu  
 195 200 205  
 Ile Asp Thr Glu Asp Arg Val Ala Phe Arg Cys Ser Met Ile Asn Met  
 210 215 220  
 Trp Pro Gly Val Leu Gly Met Asp Gly Val Val Ile Met Asn Val Arg  
 225 230 235 240  
 Phe Thr Gly Pro Asn Phe Ser Gly Thr Val Phe Leu Ala Asn Thr Asn  
 245 250 255  
 Leu Ile Leu His Gly Val Ser Phe Tyr Gly Phe Asn Asn Thr Cys Val  
 260 265 270  
 Glu Ala Trp Thr Asp Val Arg Val Arg Gly Cys Ala Phe Tyr Cys Cys  
 275 280 285  
 Trp Lys Gly Val Val Cys Arg Pro Lys Ser Arg Ala Ser Ile Lys Lys  
 290 295 300  
 Cys Leu Phe Glu Arg Cys Thr Leu Gly Ile Leu Ser Glu Gly Asn Ser  
 305 310 315 320  
 Arg Val Arg His Asn Val Ala Ser Asp Cys Gly Cys Phe Met Leu Val  
 325 330 335  
 Lys Ser Val Ala Val Ile Lys His Asn Met Val Cys Gly Asn Cys Glu  
 340 345 350  
 Asp Arg Ala Ser Gln Met Leu Thr Cys Ser Asp Gly Asn Cys His Leu  
 355 360 365

Leu Lys Thr Ile His Val Ala Ser His Ser Arg Lys Ala Trp Pro Val  
 370 375 380  
 Phe Glu His Asn Ile Leu Thr Arg Cys Ser Leu His Leu Gly Asn Arg  
 385 390 395 400  
 Arg Gly Val Phe Leu Pro Tyr Gln Cys Asn Leu Ser His Thr Lys Ile  
 405 410 415  
 Leu Leu Glu Pro Glu Ser Met Ser Lys Val Asn Leu Asn Gly Val Phe  
 420 425 430  
 Asp Met Thr Met Lys Ile Trp Lys Val Leu Arg Tyr Asp Glu Thr Arg  
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 Thr Arg Cys Arg Pro Cys Glu Cys Gly Gly Lys His Ile Arg Asn Gln  
 450 455 460  
 Pro Val Met Leu Asp Val Thr Glu Glu Leu Arg Pro Asp His Leu Val  
 465 470 475 480  
 Leu Ala Cys Thr Arg Ala Glu Phe Gly Ser Ser Asp Glu Asp Thr Asp  
 485 490 495

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Response to Notice to File Missing Parts of Nonprovisional Application (2 pages); Copy of Notice to File Missing Parts of Nonprovisional Application (2 pages); Check No. 2460 for \$65.00 (for surcharge); Declaration (4 pages); Petition for Extension of Time (1 page) (in duplicate); Check No. 2459 for \$200.00 (for petition for extension of time for two months); Formal Drawings (38 sheets, 38 figures); Second Preliminary Amendment (2 pages); Statement Under 37 C.F.R. §§ 1.821 through 1.825 (2 pages) with Sequence Listing and CRF disk of Sequence Listing

Invention:	COMPLEMENTING CELL LINES
Applicant(s):	Vogels et al.
Filing Date:	November 15, 2001
Serial No.:	10/002,750
Date Sent:	May 31, 2002 via Express Mail Label No. EV092593948US
Docket No.:	2183-5148US
TLW/bv	





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ne in Mo. Day Year 03 10 02	Military <input type="checkbox"/> 12 Noon <input type="checkbox"/> 3 PM	Int'l Alpha Country Code 00
AM <input type="checkbox"/> PM <input checked="" type="checkbox"/>	2nd Day <input type="checkbox"/> 3rd Day <input type="checkbox"/>	COD Fee \$0.00
Weight lbs. 2 ozs. 31	Acceptance Clerk Initials K	Insurance Fee \$0.00
Delivery Weekend <input type="checkbox"/> Holiday <input type="checkbox"/>	Total Postage & Fees \$2.20	

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Delivery Attempt Mo. Day 03 10	Time <input type="checkbox"/> AM <input type="checkbox"/> PM	Employee Signature
Delivery Date Mo. Day 03 10	Time <input type="checkbox"/> AM <input type="checkbox"/> PM	Employee Signature
<input type="checkbox"/> WAIVER OF SIGNATURE (Domestic Only) Additional merchandise insurance is void if waiver of signature is requested. I wish delivery to be made without obtaining signature of addressee or addressee's agent (if delivery employee judges that article can be left in secure location) and I authorize that delivery employee's signature constitutes valid proof of delivery.		
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